



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D350-636-012
Job Sheet 200546



Part No: D350-636-012

Job Qty: 1 pcs

Part Name: Skidtube RH, Std Wearplates, DART (Apical) Cylindrical/Aerazur Float Comp.



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/12/19

Job Tracking No:

Created By: Jennifer Renwick

Due Date: 10/18/19

Description: SIOP

Type: Stock

Notes: DWG D2750-042 REV.H IPP Rev:I 02.09.25 IPP Rev:J 06-03-23 As per Rev D IPP Rev:K 06-07.13 As per ds19343 IPP Rev:L 07-07-28 Added SS. Wearplates(Rev E) JLM Ver:EC IPP Rev:M 08-04-22 DD verified:EC IPP Rev:N 08-09-23 revF DD verified:ec IPP Rev:O 09-02-06 per PAR09-010 DD ver:EC IPP Rev:P 10.06.22 revise seq110 DD ver:EC IPP Rev:Q 10.10.01 as per IIN revH DDver:EC IPP REV:R 13.08.27 PER ECN13-594 DD VERF:JLM IPP REV:S 18.11.12 AS PER DWG REV.H DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Skidtubes - 1	1 pcs	10/18/19		0.00	4.36	Skidtubes - 1		DD
							Skidtubes - 2		
							Skidtubes - 3		
							Skidtubes - 4		
							Skidtubes - 5		
							Skidtubes - 6		
							Skidtubes - 7		
120	QC 10	1 pcs	10/18/19		0.00	0.00	QC 10 - 10		DAS OCT 08 2019 68 9-89
							QC 10 - 18		
							QC 10 - 24		
							QC 10 - 43		
							QC 10 - 50		
							QC 10 - 58		
							QC 10 - 9		
130	QC 5	1 pcs	10/18/19		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		

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						QC 5 - 49	
						QC 5 - 51	
						QC 5 - 58	
						QC 5 - 68	DAS OCT 08 2019 68
						QC 5 - 9	9-89
						QC 5 - 50	
						QC 5 - 30	
						QC 5 - 40	
						QC 5 - 61	
						QC 5 - 81	
140 Handfinish - 1-1 Chemical-B4B	1 pcs	10/18/19	0.00	0.91	Handfinish - 1 - 1 - B4B	BFB/9-10-09.	
					Handfinish - 1 - 2 - B4B		
					Handfinish - 1 - 3 - B4B		
					Handfinish - 1 - 4 - B4B		
					Handfinish - 1 - 5 - B4B		
					Handfinish - 1 - 6 - B4B		
					Handfinish - 1 - 7 - B4B		
					Handfinish - 1 - 8 - B4B		
					Handfinish - 1 - 9 - B4B		
					Handfinish - 1 - 10 - B4B		
					Handfinish - 1 - 11 - B4B		
					Handfinish - 1 - 12 - B4B		
					Handfinish - 1 - 13 - B4B		
					Handfinish - 1 - 14 - B4B		
					Handfinish - 1 - 15 - B4B		
					Handfinish - 1 - 16 - B4B		
					Handfinish - 1 - 17 - B4B		
					Handfinish - 1 - 18 - B4B		
					Handfinish - 1 - 19 - B4B		
					Handfinish - 1 - 20 - B4B		
					Handfinish - 1 - 21 - B4B		
					Handfinish - 1 - 22 - B4B		
150 QC 7	1 pcs	10/18/19	0.00	0.00	QC 7 - 10		
					QC 7 - 13		
					QC 7 - 14		
					QC 7 - 15		
					QC 7 - 17		
					QC 7 - 18		
					QC 7 - 19		
					QC 7 - 2		
					QC 7 - 28		
					QC 7 - 3		
					QC 7 - 30		
					QC 7 - 34		

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					QC 7 - 36	
					QC 7 - 37	
					QC 7 - 41	
					QC 7 - 47	
					QC 7 - 48	
					QC 7 - 51	
					QC 7 - 58	
					QC 7 - 59	
					QC 7 - 60	WKG TF
					QC 7 - 9	
					QC 7 - 68	
					QC 7 - 50	
					QC 7 - 67	
					QC 7 - 40	
					QC 7 - 24	
					QC 7 - 43	
					QC 7 - 61	
					QC 7 - 81	
					QC 7 - 76	
160 Skidtubes - 2 - B4B	1 pcs	10/18/19	0.00 4.36	1:54 TF 20m 24K SB 1:45 TF	Skidtubes - 1 - B4B	
					Skidtubes - 2 - B4B	
					Skidtubes - 3 - B4B	ING
					Skidtubes - 4 - B4B	TF
					Skidtubes - 5 - B4B	BE
					Skidtubes - 6 - B4B	
					Skidtubes - 7 - B4B	
170 QC 10	1 pcs	10/18/19	0.00 0.00		QC 10 - 10	
					QC 10 - 18	
					QC 10 - 24	
					QC 10 - 43	
					QC 10 - 50	
					QC 10 - 58	
					QC 10 - 9	
180 QC 5	1 pcs	10/18/19	0.00 0.00		QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
190 Handfinish - 2-1 Pressure- B4B	1 pcs	10/18/19	0.00 0.91		Handfinish - 2 - 1 - B4B	
					Handfinish - 2 - 2 - B4B	

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200	Spray Paint - 2 - B4B	1 pcs	10/18/19	0.00 0.69	Handfinish - 2 - 3 - B4B	
					Handfinish - 2 - 4 - B4B	DAS
					Spray Paint - 1 - B4B	41 OCT 26 2019
					Spray Paint - 2 - B4B	9-89
					Spray Paint - 3 - B4B	
205	Outsource	1 pcs	10/18/19		Spray Paint - 4 - B4B	
					ATE003-VC	5
210	QC 14	1 pcs	10/18/19	0.00 0.00	QC 14 - 15	ML 14-10-25
					QC 14 - 2	
					QC 14 - 34	
					QC 14 - 41	
					QC 14 - 51	
					QC 14 - 58	
					QC 14 - 59	
					QC 14 - 9	
					QC 14 - 68	
					QC 14 - 40	
					QC 14 - 19	
					QC 14 - 43	
					QC 14 - 24	
					QC 14 - 61	
					QC 14 - 81	
230	Handfinish - 4-1-Assembly-B4B	1 pcs	10/18/19	0.00 0.91	Handfinish - 4 - 1 - B4B	ML 14-10-25
					Handfinish - 4 - 10 - B4B	
					Handfinish - 4 - 11 - B4B	
					Handfinish - 4 - 12 - B4B	
					Handfinish - 4 - 13 - B4B	
					Handfinish - 4 - 14 - B4B	
					Handfinish - 4 - 15 - B4B	
					Handfinish - 4 - 2 - B4B	
					Handfinish - 4 - 3 - B4B	
					Handfinish - 4 - 4 - B4B	
					Handfinish - 4 - 5 - B4B	
					Handfinish - 4 - 6 - B4B	
					Handfinish - 4 - 7 - B4B	
					Handfinish - 4 - 8 - B4B	
240	QC 5	1 pcs	10/18/19	0.00 0.00	Handfinish - 4 - 9 - B4B	
					QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	

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						QC 5 - 68	
						QC 5 - 9	
						QC 5 - 50	
						QC 5 - 30	
						QC 5 - 40	OCT 30 2019 BAS 40 9-88
						QC 5 - 61	
						QC 5 - 81	
250 Packaging 1-1 - Pick Kit - B4B	1 pcs	10/18/19	0.00	0.00		Packaging 1 - 1 - B4B	
						Packaging 1 - 2 - B4B	
						Packaging 1 - 3 - B4B	
						Packaging 1 - 4 - B4B	NOV 15 2019
						Packaging 1 - 5 - B4B	
						Packaging 1 - 6 - B4B	
						Packaging 1 - 7 - B4B	
						Packaging 1 - 8 - B4B	
						Packaging 1 - 9 - B4B	
						Packaging 1 - 10 - B4B	
						Packaging 1 - 11 - B4B	
						Packaging 1 - 12 - B4B	
						Packaging 1 - 13 - B4B	
						Packaging 1 - 14 - B4B	
						Packaging 1 - 15 - B4B	
						Packaging 1 - 16 - B4B	
						Packaging 1 - 17 - B4B	
						Packaging 1 - 18 - B4B	
						Packaging 1 - 19 - B4B	
						Packaging 1 - 20 - B4B	
						Packaging 1 - 21 - B4B	
						Packaging 1 - 22 - B4B	
						Packaging 1 - 23 - B4B	
						Packaging 1 - 24 - B4B	
						Packaging 1 - 25 - B4B	
						Packaging 1 - 26 - B4B	
						Packaging 1 - 27 - B4B	
						Packaging 1 - 28 - B4B	
						Packaging 1 - 29 - B4B	
						Packaging 1 - 30 - B4B	
						Packaging 1 - 31 - B4B	
						Packaging 1 - 32 - B4B	
						Packaging 1 - 33 - B4B	
						Packaging 1 - 34 - B4B	
						Packaging 1 - 35 - B4B	
						Packaging 1 - 36 - B4B	
260 QC 4	1 pcs	10/18/19	0.00	0.00		QC 4 - 28	
						QC 4 - 58	
						QC 4 - 69	
						QC 4 - 9	
						QC 4 - 46	
						QC 4 - 68	
						QC 4 - 72	
						QC 4 - 74	
						QC 4 - 75	
270 Packaging 3-1 - Stock - B4B	1 pcs	10/18/19	0.00	0.00		Packaging 3 - 1 - B4B	
						Packaging 3 - 2 - B4B	

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				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	DAS
				Packaging 3 - 34 - B4B	21
				Packaging 3 - 35 - B4B	NOV 1 9 2019
				Packaging 3 - 36 - B4B	NOV 1 9 2019
275 DC - 1 - B4B	1	10/18/19	0.00 0.00	DC - 1 - B4B	DAS
	pcs			DC - 2 - B4B	21
280 QC 21 - FG	1	10/18/19	0.00 0.00	QC 21 - FG - 21	NOV 1 9 2019
	pcs			QC 21 - FG - 70	
				QC 21 - FG - 53	DAS

Part Op 110 - (Skid tubes) 1- Pick D2600-3 Bent Drill pilot holes as per Dwg D2750 sheet 4 (D2750-2 details). Drill using drill Jig

Descriptions: DT8150 & DT8863A for second side only DT8863B for first side (detail K) 4- Locate DT8329 off of blade fitting bolt holes and drill pilot holes for blade fitting. Open to 0.500" using hole saw. VERIFY AND RECORD FWD BEND ANGLE. 6- Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297". 7- Open up holes of Detail J to 0.297" (total of 2 holes per side) 8- Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left from bending as per QSI 004 9- Grind welds flush as per Dwg D2750

120 - (QC10- Inspect visual per QSI004- ground welds)

130 - (QC5- Inspect part completeness to step on W/O)

140 - (Chemical Conversion Coat per QSI005 4.1)

150 - (QC7-Inspect Chemical Conversion Coat)

160 - (Skid tubes) 1- Open up holes of Detail L using hole saw and ground handling to 0.625" (total of 8 holes per side) as per dwg D2750. 2- Open up holes of Detail K using hole saw to 0.750" (total of 4 holes per side) as per dwg D2750. 3- Open float holes using uni-bit to .500" (4 per Side) 4- Chamfer holes of Detail K, L, ground handling and float holes per dwg D2750 (welding instructions on sheet 9) 5- Deburr and blow out all chips from inside of tube 6- Prepare tube for welding, remove alodine as required. 7- Bond web D2739 in place as per QSI 015, let cure for 12hrs. A/R Sikaflex-291 batch: 5200625 exp. date: 07.25.20 **ATTN: USE I-BEAM LOCATION AID (BLADE FITTING)** 8- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 9) A/R Aluminum Rod batch: 139011 9- At section AP-AP drill out x-bolt spacer to 0.404" 10-Grind welds flush as per Dwg D2750 11- Spot face ground handling holes section (total of 4 places per side) as per dwg D2750 12- Deburr holes, ensure tube is free of

all scratches before sending to paint.

170 - (QC10- Inspect visual per QSI004- ground welds)

180 - (QC5- Inspect part completeness to step on W/O) ***VERIFY C'BOARD IS GOOD***

190 - (Pressure Wash per QSI005 4.3/ Clean and remove all markings) Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

200 - (Spray Paint / NDT Room) 1- PRIME AS PER DWG AND QSI 005 4.2 PRIMER PRC DESOTO 515X349

BATCH: 5200299 2- PAINT WHITE AS PER DWG AND QSI 005 4.2 PAINT BATCH: 5213125

210 - (QC14- Inspect Spray Paint) Inspect for foreign object per QSI 024

230 - (Assemble as per dwg) 1-Install inserts as per dwg D2750 2-Inspect for Foreign Objects 3-Install blade fitting D3488-042, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: 5200625 EXP

DATE: 20-7-25 4-assemble o'ring to plug as per dwg D3492 and apply o'ring lube A/R 55-o'ring lube

batch: 5138843 5-Coat all exposed fasteners with "LPS Procyon" batch: 5135640

240 - (QC5- Inspect part completeness to step on W/O)

250 - (Pick Kit)

260 - (QC4- 100% Inspect kits for completeness)

270 - (Identify as per dwg & Stock Location: F6072) Package as per PPP D350-636-012

275 - (Document Control) record fwd angle: 89.4 Photocopy blue file and type labels per PPP D350-636-012 CHG 008

280 - (QC21- Final Inspection - Work Order Release)

F6072

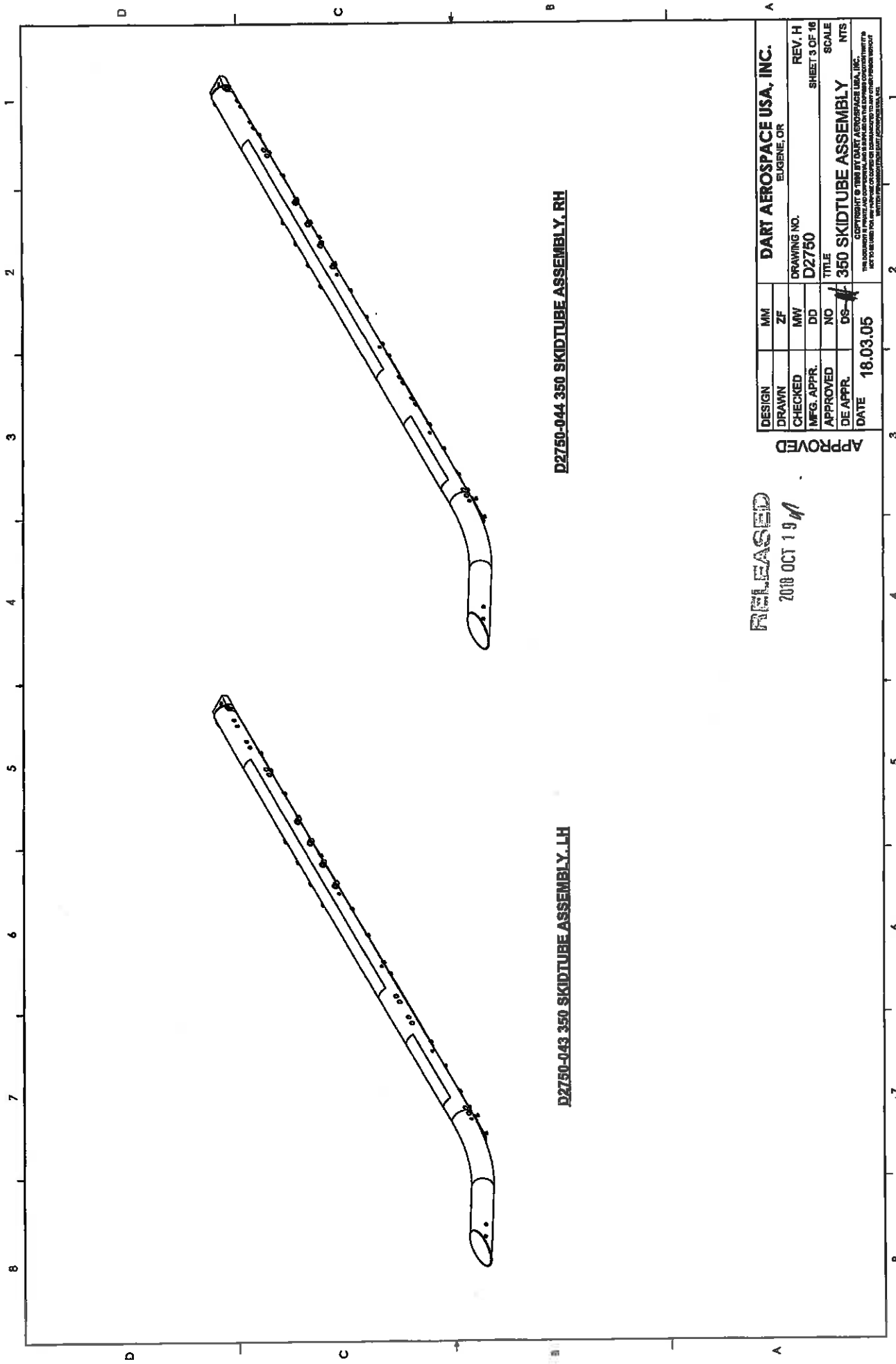
Job BOM

012630

Part / Item	Component Name	Quantity	Operation	Container
D2600-3-BENT-RH	Extrusion Bent RH	1 pcs (1 ea)	110-Skidtubes - 1	<u>5216212</u>
D2744	Cap	1 pcs (1 ea)	110-Skidtubes - 1	<u>5192776</u>
D2739	350 I-Beam	1 pcs (1 ea)	160-Skidtubes - 2 - B4B	<u>5219546</u>
D2743	Crossbolt Spacer	8 pcs (8 ea)	160-Skidtubes - 2 - B4B	<u>5194932</u>
D3490-1	Cross Bolt Spacer	4 pcs (4 ea)	160-Skidtubes - 2 - B4B	<u>5210529</u>
D3490-3	Cross Bolt Spacer	4 pcs (4 ea)	160-Skidtubes - 2 - B4B	<u>5199622</u>
ALS4-1032-225	Rivnut	38 Ea (38 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5203363</u>
AN3C5A	Bolt	34 Ea (34 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5216219</u>
AN3C6A	Bolt	4 Ea (4 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5217714</u>
AN6C44A	Bolt	4 Ea (4 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5216232</u>
AN8C35A	Bolt	1 Ea (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5217983</u>
D2745	Bushing	8 pcs (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5219776</u>
D3488-4	Blade Fitting, RH	1 pcs (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5185284</u>
D3492-1	Plug	8 pcs (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5218651</u>
D3492-3	Plug	8 pcs (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5215332</u>
D3537-1	Wearpad	3 pcs (3 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5207779</u>
D3631-1	Washer	8 pcs (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5184142</u>
D3791-1	Wearpad	1 pcs (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5211422</u>
D3793-1	Wearplate Fwd	1 pcs (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5208541</u>
D3793-3	Wearplate Aft	1 pcs (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5210541</u>
MS21043-6	Nut <u>5216287-1 (4)</u>	4 Ea (4 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5216287x3</u>
MS21083C8	Nut	1 Ea (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5215606-1</u>
NAS1149C0332R	Washer (AN960C10L)	38 Ea (38 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5218151</u>
NAS1149C0832R	Washer (AN960C816L)	1 Ea (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5096017-3</u>
NAS1515H3L	Washer	4 Ea (4 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5214421</u>
NAS1611-010	O-Ring	8 Ea (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5057658</u>
NAS1611-013	O-Ring	8 Ea (8 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5194935</u>
D3793-5	Wearpad	1 pcs (1 ea)	230-Handfinish - 4-1-Assembly-B4B	<u>5210497</u>
AN8C21A	Bolt	2 Ea (2 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>5184404</u>
D2741	Replacement Blade	1 pcs (1 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>5210557</u>
D3493-1	Washer	2 pcs (2 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>5225635</u>
D3532-1	Spacer	2 pcs (2 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>5163195</u>
MS21083C8	Nut	2 Ea (2 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>52115806</u>
NAS1149D0863J	Washer	2 Ea (2 ea)	250-Packaging 1-1 - Pick Kit - B4B	<u>5164471</u>

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-Skidtubes - 1	D2600-3-BENT-RH	1	2	0
	D2744	1	38	0
160-Skidtubes - 2 - B4B	D2739	1	7	0
	D2743	8	144	0
	D3490-1	4	202	0
	D3490-3	4	33	0
	ALS4-1032-225	38	854	0
230-Handfinish - 4-1-Assembly-B4B	AN3C5A	34	689	0
	AN3C6A	4	95	0
	AN6C44A	4	60	0
	AN8C35A	1	13	0
	D2745	8	104	0
	D3488-4	1	18	0
	D3492-1	8	92	0
	D3492-3	8	50	0
	D3537-1	3	152	0
	D3631-1	8	256	0
	D3791-1	1	22	0
	D3793-1	1	30	0
	D3793-3	1	18	0
	D3793-5	1	27	0
	MS21043-6	4	74	0
	MS21083C8	1	45	0
	NAS1149C0332R	38	3,072	0
	NAS1149C0832R	1	269	0
	NAS1515H3L	4	43	0
	NAS1611-010	8	131	0
	NAS1611-013	8	128	0
250-Packaging 1-1 - Pick Kit - B4B	AN8C21A	2	81	0
	D2741	1	65	0
	D3493-1	2	37	0
	D3532-1	2	25	0
	MS21083C8	2	45	0
	NAS1149D0863J	2	349	0
Part Specifications				
Specifications could not be found.				

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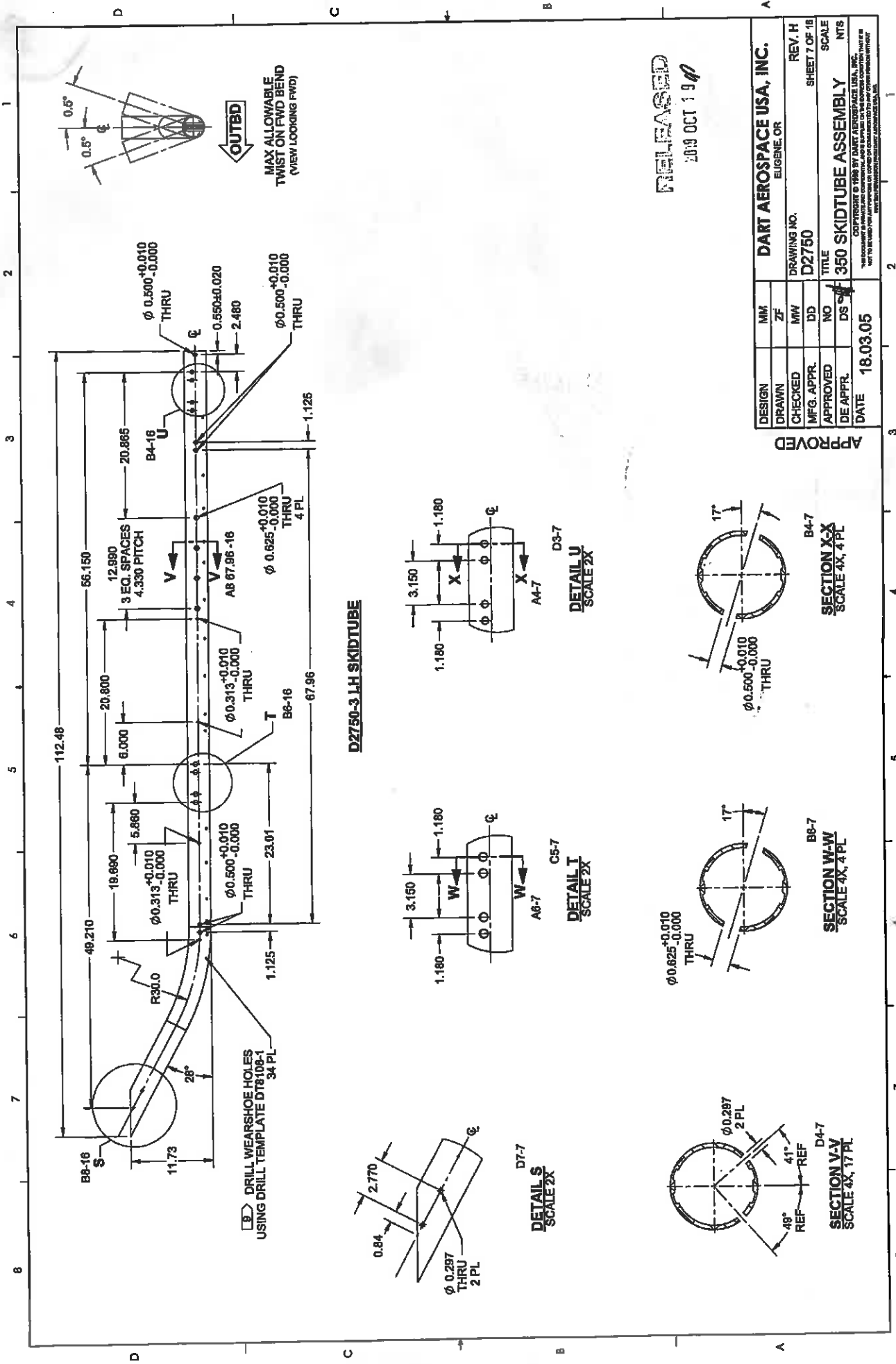


RELEASED
2018 OCT 19

APPROVED

DESIGN	MM	DART AEROSPACE USA, INC.	
DRAWN	ZF	ELGEME, OR	
CHECKED	MW	DRAWING NO.	REV. H
MFG. APPR.	DD	D2750	SHEET 3 OF 10
APPROVED	NO	TITLE	SCALE
DE APPR.	DS	350 SKIDTUBE ASSEMBLY	NTS
DATE	18.03.05	COPYRIGHT © 1988 BY DART AEROSPACE USA, INC.	
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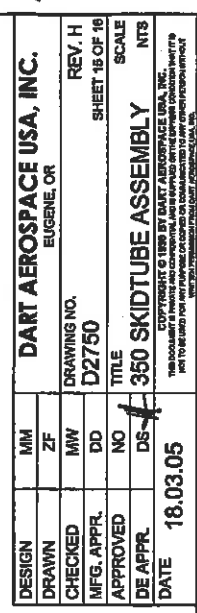


RELEASED
2019 OCT 19 40

DESIGN	MM	DART AEROSPACE USA, INC.
DRAWN	ZF	EUGENE OR
CHECKED	MW	DRAWING NO. D2750
MFG. APPR.	DD	REV. H
APPROVED	NO	SHEET 7 OF 18
DE APPR.	DS	TITLE
DATE	18.03.05	350 SKIDTUBE ASSEMBLY
		SCALE NTS

APPROVED

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Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

DISPOSITION		DEPARTMENT/PROCESS																																																																																			
Job: _____	Rework ☐	Skid-tube ☐	Cross tube ☐	Eng. (Non-AW) ☐	Engineering ☐																																																																																
Part No. _____	Scrap ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Water Jet ☐																																																																																
	Use-as-is ☐	Large Fab ☐	Finishing ☐	Rec/Store/Packaging ☐	Supplier ☐																																																																																
Date: _____	Sequence #: _____	QTY Affected: _____		MRB (QS1042) ☐																																																																																	
Description Work Order Deviation		Disposition																																																																																			
Root Cause <table border="1"><tr><td>Operator</td><td>☐</td></tr><tr><td>Manufacturing Process</td><td>☐</td></tr><tr><td>Equip/Tooling</td><td>☐</td></tr><tr><td>Handling/Preservation</td><td>☐</td></tr><tr><td>Material</td><td>☐</td></tr><tr><td>Product Improvement</td><td>☐</td></tr><tr><td>Process Improvement</td><td>☐</td></tr><tr><td>Human Factors</td><td>☐</td></tr></table>		Operator	☐	Manufacturing Process	☐	Equip/Tooling	☐	Handling/Preservation	☐	Material	☐	Product Improvement	☐	Process Improvement	☐	Human Factors	☐	FAULT CATEGORY <table border="1"><tr><td>Pressure/Forced</td><td>☐</td><td>Contamination</td><td>☐</td><td>Power Loss/Surge</td><td>☐</td><td>Positioned Wrong</td><td>☐</td></tr><tr><td>Bending</td><td>☐</td><td>Misaligned/off center</td><td>☐</td><td>Folio/Program</td><td>☐</td><td>Outside Tolerance</td><td>☐</td></tr><tr><td>Crushing</td><td>☐</td><td>BOM/Route</td><td>☐</td><td>Grain Direction</td><td>☐</td><td>Drawing</td><td>☐</td></tr><tr><td>Cracks</td><td>☐</td><td>Broken/Damage/Defect</td><td>☐</td><td>Weld</td><td>☐</td><td>Finish</td><td>☐</td></tr><tr><td>Crimp/Kink/Ripple/Wave/Twist</td><td>☐</td><td>Incomplete/Unclear Instructions</td><td>☐</td><td>Wrong Stock Pulled</td><td>☐</td><td>Part Lost/Missing</td><td>☐</td></tr><tr><td>Marks/Chatter</td><td>☐</td><td>Drill Holes</td><td>☐</td><td>Out of Sequence</td><td>☐</td><td>Misread</td><td>☐</td></tr><tr><td>Mislabeled</td><td>☐</td><td>Fit/Function</td><td>☐</td><td>Off-set/Set-up</td><td>☐</td><td></td><td></td></tr><tr><td colspan="4">Other/Details:</td><td colspan="4"></td></tr></table>				Pressure/Forced	☐	Contamination	☐	Power Loss/Surge	☐	Positioned Wrong	☐	Bending	☐	Misaligned/off center	☐	Folio/Program	☐	Outside Tolerance	☐	Crushing	☐	BOM/Route	☐	Grain Direction	☐	Drawing	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Finish	☐	Crimp/Kink/Ripple/Wave/Twist	☐	Incomplete/Unclear Instructions	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐	Marks/Chatter	☐	Drill Holes	☐	Out of Sequence	☐	Misread	☐	Mislabeled	☐	Fit/Function	☐	Off-set/Set-up	☐			Other/Details:							
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